ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
REGULATORY CONTACT RECORD

Date/Time: November 4, 2004

Site Contact(s): Dyan Foss
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Regulatory Contact: Edd Kray
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Agency: CDPHE

Purpose of Contact: Disposition of Building 707 slab

Discussion

Building 707 is a two-story structure with a single-story addition located on the east side of the main building. Decommissioning has been on going in the building since October 2001. After the equipment was removed, decontamination efforts were initiated on the structure itself with the goal of achieving the unrestricted release criteria. However, despite aggressive decontamination efforts, some of the areas could not be decontaminated to unrestricted release. The areas with residual contamination include the following:

- The floor of the X-Y retriever, which has residual contamination ranging from 10,000 to 20,000 dpm/100 cm^2;
- Pipe chases running north-south through the west side of the building, which have residual contamination up to 2,400 dpm/100 cm^2;
- Penetrations in H module;
- Localized spots on the slab in C module with residual contamination ranging from 10,000 to 30,000 dpm/100 cm^2;
- A localized area on the slab in B module with residual contamination ranging from 400 to 500 dpm/100 cm^2; and
- Localized spots on the slab in A module with residual contamination up to 1,000 dpm/100 cm^2.

The two areas with the highest remaining contamination are an area in B module and a small localized spot in C module, which have residual contamination up to 1,000,000 dpm/100 cm^2. All of the characterization information and a map of these areas will be included in the Building 707 Pre-Demolition Survey Report for the first floor that will be submitted for CDPHE approval prior to demolition.

The proposed approach for removing these areas after demolition is consistent with the approach in other facilities where aggressive decontamination methods have taken the contamination to the soils. In addition, aggressive decontamination or removal prior to demolition could result in the

infiltration of groundwater into the building. ER has removed similar slabs and pits with no adverse impacts to the environment.

In preparation for demolition, these areas will be encapsulated and marked for identification. Depending on the size of the area, steel plates may also be installed. If a steel plate is installed, a bright paint will be used to identify the plate location. All of these areas will be removed during demolition, and the activity will be coordinated with ER to ensure that the soils beneath the structures are adequately evaluated prior to backfilling.

When presented with all of the survey information and proposed approach, CDPHE concurred that the disposition of this area should be consistent with the approach for the Building 778 slab and Buildings 731 and 732 and Section 4.4.7 of the Building 707 Decommissioning Operations Plan (DOP).

The analysis required in the DOP will be completed for all contaminated component/shell removal associated with the Building 707 Project as one analysis. In addition to this contact record, a memo documenting the areas of residual contamination, commitments and controls will be prepared for the RISS project prior to transferring the facilities for disposition.

Contact Record Prepared By: Dyan Foss

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